

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Rabinowitz et al.	Art Unit	: 3662
Serial No.	: 11532736	Examiner	: Phan, Dao Linda
Filed	: 9/18/2006	Conf. No.	: 3361
Title	: POSITION LOCATION USING DIGITAL VIDEO BROADCAST TELEVISION SIGNALS		

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.56 and 1.97-98

Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is a modified form PTO-1449 listing documents for consideration by the Examiner.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of documents, or that inclusion of a document in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

This Information Disclosure Statement is being filed:

- ☒ within three months of the filing date of the application, or date of entry into the national stage of an international application, or before the mailing date of a first office action on the merits, whichever event last occurred;
- ☐ before the mailing of a first official action after the filing of a request for continued examination (RCE) under 37 CFR § 1.114;
- ☐ after three months from the filing date of this national application or the date of entry of the national stage in an international application, or after the mailing date of the first official action on the merits, whichever event last occurred, but before the mailing date of the first to occur of either: (1) a final action under 37 CFR § 1.113; or (2) an action that otherwise closes prosecution in the application, and:

- ☐ attached hereto is the fee set forth under 37 CFR § 1.17(p) for submission of this Information Disclosure Statement under 37 CFR § 1.97(c); OR
- ☐ Applicant certifies pursuant to 37 CFR § 1.97(e) that:
 - ☐ each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; OR
 - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement;
- ☐ before the payment of the issue fee but after the mailing date of the first to occur of either: (1) a final action under 37 CFR § 1.113; or (2) an action that otherwise closes prosecution in the application, and:
 - ☐ Applicant certifies pursuant to 37 CFR. § 1.97(e) that:
 - ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; or
 - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement; AND
 - ☐ attached hereto is the fee set forth under 37 CFR § 1.17 (p) for submission of this Information Disclosure Statement under 37 CFR § 1.97(c); OR
- ☐ after the payment of the issue fee. Applicant requests that the information contained in this Information Disclosure Statement be placed in the file according to 37 CFR § 1.97(i), although the information may not be considered by the USPTO.
- ☒ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application No. 09932010, filed on 8/17/2001, and the documents cited therein are hereby referenced, but are not required to be provided in this application under 37 CFR § 1.98(d).
- ☐ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 CFR § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement. 37 CFR § 1.704(d).

Applicant : Rabinowitz
Serial No. : 11532736
Filed : 9/18/2006

Attorney's Docket No.: RSM003002

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☒ Applicant submits that no fee is required for the consideration of this Information Disclosure Statement.

Consideration of the listed documents and favorable action are respectfully requested.

Date: November 18, 2006
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Respectfully submitted,
/Richard A. Dunning, Jr. #42502/
Attorney for Applicant

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known																				
Sheet		1	of	3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Appl. No. & Conf. No.</td> <td style="width: 30%;">11532736</td> <td style="width: 30%;">3361</td> </tr> <tr> <td>Filing Date</td> <td colspan="2">9/18/2006</td> </tr> <tr> <td>First Named Inventor</td> <td colspan="2">Rabinowitz et al.</td> </tr> <tr> <td>Group Art Unit</td> <td colspan="2">3662</td> </tr> <tr> <td>Examiner Name</td> <td colspan="2">Phan, Dao Linda</td> </tr> <tr> <td>Attorney Docket Number</td> <td colspan="2">RSM003002</td> </tr> </table>		Appl. No. & Conf. No.	11532736	3361	Filing Date	9/18/2006		First Named Inventor	Rabinowitz et al.		Group Art Unit	3662		Examiner Name	Phan, Dao Linda		Attorney Docket Number	RSM003002	
Appl. No. & Conf. No.	11532736	3361																						
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U.S. PATENT DOCUMENTS																								
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear																		
		Number	Kind Code ² (if known)																					
	A	4,555,707		Connelly	11-26-1985																			
	B	4,652,884		Starker	03-24-1987																			
	C	4,700,306		Wallmander	10-13-1987																			
	D	4,894,662		Counselman	01-16-1990																			
	E	5,045,861		Duffett-Smith	09-03-1991																			
	F	5,157,686		Omura et al.	10-20-1992																			
	G	5,166,952		Omura et al.	11-24-1992																			
	H	5,271,034		Abaunza	12-14-1993																			
	I	5,323,322		Mueller et al.	06-21-1994																			
	J	5,398,034		Spilker, Jr	03-14-1995																			
	K	5,481,316		Patel	01-02-1996																			
	L	5,504,492		Class et al.	04-02-1996																			
	M	5,510,801		Engelbrecht et al.	04-23-1996																			
	N	5,604,765		Bruno et al.	02-18-1997																			
	O	5,648,982		Durrant et al.	07-15-1997																			
	P	5,774,829		Cisneros et al.	06-30-1998																			
	Q	5,920,284		Victor	07-06-1999																			
	R	5,952,958		Speasl et al.	09-14-1999																			
	S	5,953,311		Davies et al.	09-14-1999																			
	T	6,016,119		Krasner	01-18-2000																			
	U	6,078,284		Levanon	06-20-2000																			
	V	6,094,168		Duffett-Smith et al.	07-25-2000																			
	W	6,107,959		Levanon	08-22-2000																			
	X	6,137,441		Dai et al.	10-24-2000																			
	Y	6,147,642		Perry, et al.	11-14-2000																			
	Z	6,181,921		Konisi, et al.	01-30-2001																			
	AA	6,201,497		Snyder, et al.	03-13-2001																			
	AB	6,215,778		Lomp et al.	04-10-2001																			
	AC	6,317,452		Durrant et al.	11-13-2001																			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	AD	GB	2 222 922	A	Spectronics Micro System	03-21-1990		
	AE	GB	2 254 508	A	Mitchison, et al.	10-07-1992		

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known			
				Appl. No. & Conf. No.		11532736	3361
				Filing Date		9/18/2006	
				First Named Inventor		Rabinowitz et al.	
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Sheet	2	of	3				

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Appl. No. & Conf. No.	11532736 3361
				Filing Date	9/18/2006
				First Named Inventor	Rabinowitz et al.
				Group Art Unit	3662
				Examiner Name	Phan, Dao Linda
Sheet	3	of	3	Attorney Docket Number	RSM003002
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T²
	BF	PARKINSON, B.W., et al., "Autonomous GPS Integrity Monitoring Using the Pseudorange Residual," <i>Journal of the Institute of Navigation</i> (1988), Vol. 35, No. 2, pages 255-274.			
	BG	RABINOWITZ, M., "A Differential Carrier Phase Navigation System Combining GPS with Low Earth Orbit Satellites for Rapid Resolution of Integer Cycle Ambiguities," <i>PhD Thesis for Department of Electrical Engineering, Stanford University</i> (Dec. 2000), pages 59-73.			
	BH	SPILKER, JR., J.J., "Fundamentals of Signal Tracking Theory," <i>Global Positioning System: Theory and Applications</i> (1994), Vol. 1, Chapter 7, pages 245-327.			
	BI	VAN DIERENDOCK, A.J., "GPS Receivers," <i>Global Positioning System: Theory and Applications</i> (1995), Vol. 1, Chapter 8, pages 329-407.			
	BJ	LI, X., et al., "Indoor Geolocation Using OFDM Signals in HIPERLAN/2 Wireless LANS," 11 th IEEE International Symposium on Personal Indoor and Mobile Radio Communications, PIMRC 2000, Proceedings (Cat. No. 00TH8525), Proceedings of 11 th International Symposium on Personal Indoor and Mobile Radio Communication, London, UK, Sept. 18-21, pp.1449-1453, Vol. 2, XPO10520871, 2000, Piscataway, NJ, USA, IEEE, USA, ISBN: 9-7803-6463-5, Chapter I and III			
	BK	RABINOWITZ, M., et al., "Positioning Using the ATSC Digital Television Signal," Rosum whitepaper, Online! 2001, XP002235053, Retrieved from the Internet on 03-13-2003 at URL www.rosun.com/whitepaper 8-7-01.pdf			
	BL	EP Abstract/Zusammenfassung/Abrege, 02102666.1			
	BM	JP Abstract/ Vol. 007, No. 241 (P-232), 10-26-1983 & JP58 129277 A (Nihon Musen KK) 08-02-1983			

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